

## **Appendix A**

### **Detailed Waste Composition Spreadsheets**

## **A.1 Municipal Solid Waste Combined Composition Analysis and Projections**

Step 1. Planning Unit and Plan Period Selection

Please, select from the drop-down list the name of your planning unit and the planning period of your LSWMP. Be aware that a LSWMP must be developed for a 10-year period, and that your selection will be replicated on each one of the following tabs.

Planning Unit	Chautauqua County
Planning Period	2024-2033

## Step 2. Waste Generation Rate

In order to project how the amount of waste generated in the planning unit will change over time, data regarding the current amount of waste generated by the planning unit is needed. This can be the total tons of waste generated by the planning unit in the current year (Tons/yr), or this can be the estimated daily quantity of waste generated per person in the planning unit (lb/person/day). If both the total annual generation and the estimated generation rate per person are unknown, the state average for MSW generation rate can be used along with the planning unit's population to estimate the total amount of waste generated in the planning unit.

For this step, select one of the options that describes the known information about the planning unit. Enter the waste generated in Tons (MSW disposed & Recycled Materials) or the waste generation rate in lb/person/day in the purple cell. If no data on the waste generated in the planning unit is available, choose the corresponding option from the list. The calculator will estimate the total amount of waste generated based on the state's average generation rate and the planning unit's population.

### Chautauqua County

The amount of waste generated (by all residents, institutions, etc.) in the planning unit will be based on what is known. If the MSW generation amount and the generation rate are unknown, the state average for MSW generation rate will be used.

☒ I know the amount of MSW generated (Tons/year):

Enter tons disposed here:

90,759

☐ The planning unit Average MSW Generation Rate (lb/person/day) is:

☐ The amount of MSW Generated and the planning unit Average MSW Generation Rate are unknown.

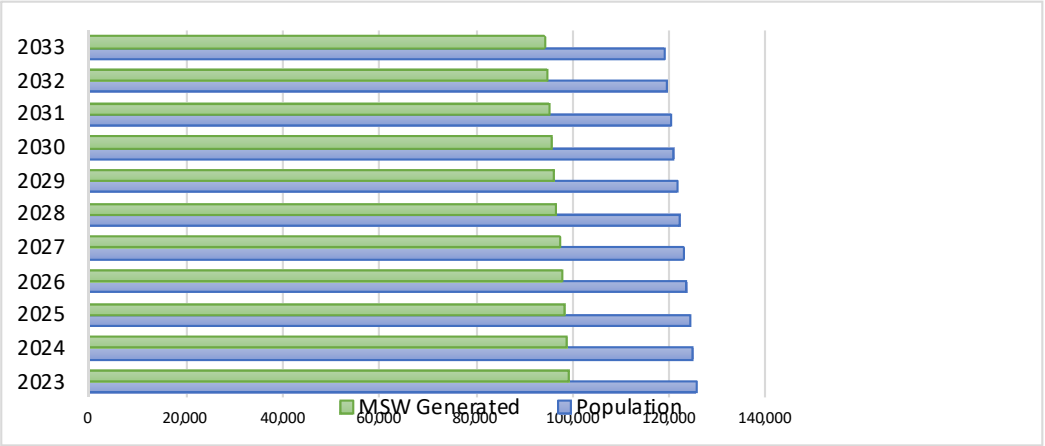
Enter tons diverted here:

8,811

Chautauqua County

2024-2033

Current Data	
2020 Population Census	127,657
2023 Population	125,610
2023 MSW Generated (Tons/yr)	99,570
2023 MSW generation rate (Lb/person/day)	3.96
2023 MSW Disposed (Tons/yr)	90,759
2023 MSW Diverted (Tons/yr)	8,811



97578.41

Annual rate of population growth (%)	-0.54%
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Population Projection										
2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
125,610	124,936	124,264	123,597	122,933	122,272	121,615	120,962	120,312	119,666	119,023

Forecasting future conditions... What do you expect to happen to the MSW generation rate over the next 10 year period plan?

MSW generation rate does not change. Consequently, MSW generation fluctuates with the population of the planning unit, if the population increases, waste generation will rise as well, and vice versa.

MSW generation amount remains the same, regardless of whether or not the planning unit's population fluctuates.

As a result of successfully implementing the Local Solid Waste Management Plan, MSW generation will be reduced by an annual factor of ...

Reduction Factor (per year)

2.0%

MSW generation rate (Lb/person/day)	4.34
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MSW Generation Projection											
2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	
4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	(Lb/person/day)
99,398	98,864	98,333	97,805	97,279	96,756	96,237	95,720	95,205	94,694	94,185	Tons/yr

### Step 4. Municipal Solid Waste (MSW) Detailed Composition Analysis

The next step is to Identify the Materials Composition of the Waste Stream based on population density, and demographic characteristics of the Planning Unit.

This tab will provide the PU with a more detailed estimate of the materials present in the waste stream, which could be crucial when prioritizing the initiatives and programs of the LSMP.

The population density distribution has been calculated based on the 2010 Census data and will be auto populated when a planning unit is selected. The following parameters were used:

- Rural: <325 persons/mi<sup>2</sup>
- Suburban: >325 and <5,000 persons/mi<sup>2</sup>
- Urban: >5,000 persons/mi<sup>2</sup>

Under Density Population Distribution, the user has the option to modify the percentage values for the Sector (*Residential and Commercial/Institutional*) based on land use and specific characteristics of each planning unit. For example: A rural population in Westchester County could be 64% Residential and 36% Commercial / Institutional, while in Wyoming County might be 50% Residential and 50% Commercial / Institutional.

The results are presented on the last right column under MSW Materials Composition. Be aware of color changes on the cells, whenever a category represents over 15% of the total waste generation, the cell will turn **red** to easily identify key categories of the waste stream. It will also facilitate the selection of initiatives, programs, and infrastructure for the solid waste management system.

Note: If no data exists, use the pre-populated information in the worksheet.

Chautauqua County										2024-2033		
Density Population Distribution	Rural			Suburban			Urban			MSW Materials Composition (%)		
	40.71%			59.29%			0.00%					
	Residential	Comm/Inst.	Combined	Residential	Comm/Inst.	Combined	Residential	Comm/Inst.	Combined			
	58.00%	42.00%	100.00%	55.00%	45.00%	100.00%	58.00%	42.00%	100.00%			
Material	Newspaper		5.20%	1.90%	3.81%	5.00%	1.90%	3.61%	6.60%	2.00%	4.67%	3.69%
	Corrugated Cardboard		6.60%	13.90%	9.67%	6.60%	13.90%	9.89%	6.90%	13.70%	9.76%	9.80%
	Other Recyclable Paper	Paperboard	3.20%	1.10%	2.32%	3.30%	1.00%	2.27%	3.60%	0.90%	2.47%	2.29%
		Office Paper	0.80%	3.80%	2.06%	0.90%	4.20%	2.39%	1.10%	5.80%	3.07%	2.25%
		Junk Mail	3.00%	0.70%	2.03%	3.20%	0.70%	2.08%	3.50%	0.70%	2.32%	2.06%
		Other Commercial Printing	1.70%	2.30%	1.95%	1.70%	2.40%	2.02%	2.30%	2.60%	2.43%	1.99%
		Magazines	1.10%	0.90%	1.02%	1.00%	0.80%	0.91%	1.10%	1.00%	1.06%	0.95%
		Books	0.50%	0.30%	0.42%	0.50%	0.30%	0.41%	0.60%	0.40%	0.52%	0.41%
		Paper Bags	0.50%	0.20%	0.37%	0.50%	0.20%	0.37%	0.60%	0.20%	0.43%	0.37%
		Phone Books	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.20%	0.26%	0.30%
	Poly-Coated	0.20%	0.30%	0.24%	0.20%	0.20%	0.20%	0.30%	0.20%	0.26%	0.22%	
	Other Recyclable Paper (Total)		11.30%	9.90%	10.71%	11.60%	10.10%	10.93%	13.40%	12.00%	12.81%	10.84%
	Other Compostable Paper		6.80%	6.80%	6.80%	6.40%	6.40%	6.40%	6.80%	6.80%	6.80%	6.56%
	Total Paper		29.90%	32.50%	30.99%	29.60%	32.30%	30.82%	33.70%	34.50%	34.04%	30.89%
	Ferrous/Aluminum Containers	Ferrous Containers	1.90%	1.00%	1.52%	1.20%	0.70%	0.98%	1.40%	0.70%	1.11%	1.20%
		Aluminum Containers	0.70%	0.40%	0.57%	0.60%	0.30%	0.47%	0.50%	0.40%	0.46%	0.51%
	Ferrous/Aluminum Containers (Total)		2.60%	1.40%	2.10%	1.80%	1.00%	1.44%	1.90%	1.10%	1.56%	1.71%
	Other Ferrous Metals		5.20%	5.40%	5.28%	5.00%	5.80%	5.36%	3.30%	3.70%	3.47%	5.33%
	Other Non-Ferrous Metals	Other aluminum	0.20%	0.30%	0.24%	0.20%	0.30%	0.25%	0.20%	0.30%	0.24%	0.24%
		Automotive batteries	0.80%	0.50%	0.67%	0.70%	0.40%	0.57%	0.20%	0.20%	0.20%	0.61%
		Other non-aluminum	0.50%	0.30%	0.42%	0.30%	0.40%	0.35%	0.40%	0.20%	0.32%	0.37%
	Other Non-Ferrous Metals (Total)		1.50%	1.10%	1.33%	1.20%	1.10%	1.16%	0.80%	0.70%	0.76%	1.23%
	Total Metals		9.30%	7.90%	8.71%	8.00%	7.90%	7.96%	6.00%	5.50%	5.79%	8.26%
	PET Containers		1.10%	0.80%	0.97%	0.90%	0.80%	0.86%	1.20%	1.00%	1.12%	0.90%
	HDPE Containers		1.10%	0.60%	0.89%	0.90%	0.70%	0.81%	1.00%	0.70%	0.87%	0.84%
	Other Plastic (3-7) Containers		0.20%	0.10%	0.16%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.18%
	Film Plastic		5.70%	5.90%	5.78%	5.50%	5.80%	5.64%	5.80%	5.80%	5.80%	5.70%
	Other Plastic	Durables	3.10%	3.20%	3.14%	3.00%	3.20%	3.09%	3.20%	3.30%	3.24%	3.11%
		Non-Durables	1.60%	1.80%	1.68%	1.60%	1.80%	1.69%	1.80%	1.90%	1.84%	1.69%
		Packaging	1.40%	1.10%	1.27%	1.40%	1.10%	1.27%	1.50%	1.10%	1.33%	1.27%
	Other Plastic (Total)		6.10%	6.10%	6.10%	6.00%	6.10%	6.05%	6.50%	6.30%	6.42%	6.07%
	Total Plastics		14.20%	13.50%	13.91%	13.50%	13.60%	13.55%	14.70%	14.00%	14.41%	13.69%
	Glass Bottles, Jars and Containers		4.10%	3.80%	3.97%	3.90%	3.80%	3.86%	4.30%	3.80%	4.09%	3.90%
	Other Glass (Flat glass, dishware, light bulbs, etc.)		0.50%	0.40%	0.46%	0.30%	0.40%	0.35%	0.40%	0.40%	0.40%	0.39%
	Total Glass		4.60%	4.20%	4.43%	4.20%	4.20%	4.20%	4.70%	4.20%	4.49%	4.29%
	Food Scraps		12.70%	13.30%	12.95%	12.90%	15.50%	14.07%	17.20%	25.20%	20.56%	13.61%
	Leaves and Grass / Pruning and Trimmings		3.10%	1.10%	2.26%	11.30%	9.10%	10.31%	4.20%	1.50%	3.07%	7.03%
	Total Organics		15.80%	14.40%	15.21%	24.20%	24.60%	24.38%	21.40%	26.70%	23.63%	20.65%
	Clothing Footwear, Towels, Sheets		4.60%	3.00%	3.93%	4.40%	3.20%	3.86%	4.80%	2.50%	3.83%	3.89%
	Carpet		1.40%	1.30%	1.36%	1.70%	1.40%	1.57%	1.70%	0.90%	1.36%	1.48%
Total Textiles		6.00%	4.30%	5.29%	6.10%	4.60%	5.43%	6.50%	3.40%	5.20%	5.37%	
Total Wood (Pallets, crates, adulterated and non-adulterated wood)		4.10%	9.00%	6.16%	2.90%	4.10%	3.44%	2.00%	3.50%	2.63%	4.55%	
DIY - Construction & Renovation Materials		8.00%	7.60%	7.83%	3.80%	2.70%	3.31%	4.40%	3.80%	4.15%	5.15%	
Diapers		1.90%	1.10%	1.56%	2.10%	1.20%	1.70%	2.30%	1.10%	1.80%	1.64%	
Electronics		1.30%	1.40%	1.34%	1.60%	1.70%	1.65%	1.30%	1.30%	1.30%	1.52%	
Tires		1.80%	1.80%	1.80%	1.70%	1.40%	1.57%	0.50%	0.40%	0.46%	1.66%	
HHW		0.60%	0.00%	0.35%	0.60%	0.00%	0.33%	0.50%	0.00%	0.29%	0.34%	
Soils and Fines		0.60%	0.60%	0.60%	0.10%	0.20%	0.15%	0.10%	0.10%	0.10%	0.33%	
Other Composite Materials - Durable and/or Inert		1.90%	1.70%	1.82%	1.60%	1.50%	1.56%	1.90%	1.50%	1.73%	1.66%	
Total Miscellaneous		16.10%	14.20%	15.30%	11.50%	8.70%	10.24%	11.00%	8.20%	9.82%	12.30%	
Total		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	

Step 5. Municipal Solid Waste (MSW) Detailed Composition Analysis

On this tab, the composition of the municipal waste stream will be estimated based on the amount of material generated in the planning unit and the state average of the different waste materials. A pie chart will be generated to clearly show the composition of the waste stream and to identify key categories of the waste stream for the planning unit.

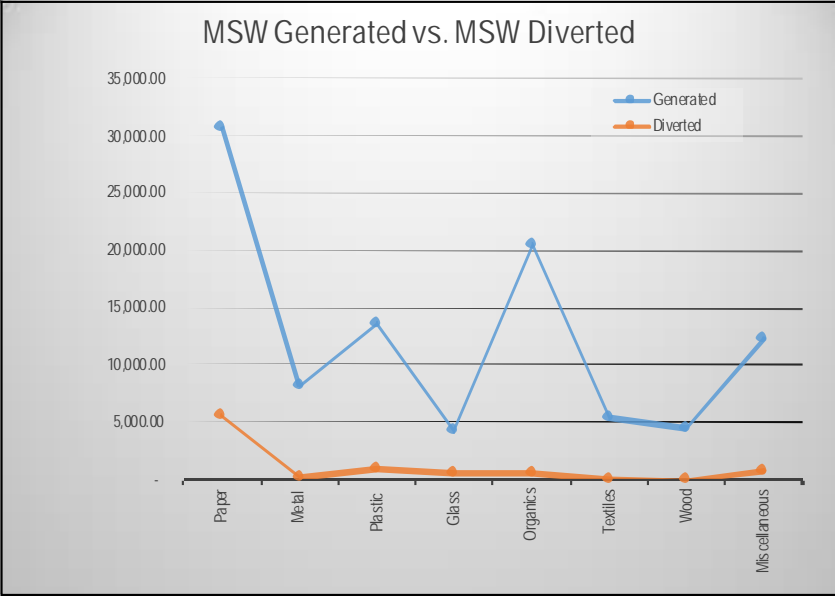
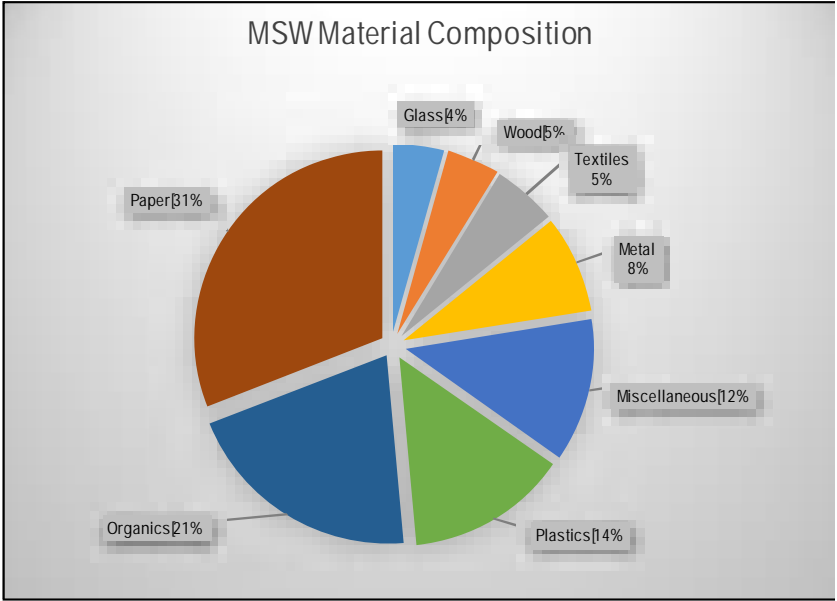
The total tons of MSW diverted per year will be auto populated based on previous data inputs, while the amount tons diverted for each material by category should be populated by the user. Purple cells should be used for amounts of diverted waste by type of material, and a totaled number by category (e.g. paper, metal) should be put in the green cells. After inputting the data, a graphic will be generated to show the MSW generation and diversion streams in Tons.

Make sure that the total amounts at the bottom of the page are consistent with the data you already put into the calculator. If the cell is highlighted in red, you should revise the amounts of diverted waste by category.

Chautauqua County

2024-2033

		2023		
		MSW Materials Composition (%)	MSW Generated (Tons)	MSW Diverted (Tons)
Paper	Material	100.0%	99,570	8,810.69
	Newspaper	3.7%	3,674	771.89
	Corrugated Cardboard	9.8%	9,754	3,862.11
	Other Recyclable Paper (Total)	10.8%	10,792	1,001.76
	Other Compostable Paper	6.6%	6,535	0.00
	Total Paper	30.9%	30,754	5,635.75
Metal	Ferrous/Aluminum Containers (Total)	1.7%	1,700	167.36
	Other Ferrous Metals	5.3%	5,306	26.12
	Other Non-Ferrous Metals (Total)	1.2%	1,222	2.61
	Total Metals	8.3%	8,228	196.09
Plastic	PET Containers	0.9%	900	451.34
	HDPE Containers	0.8%	839	435.77
	Other Plastic (3-7) Containers	0.2%	182	77.82
	Film Plastic	5.7%	5,671	0.00
	Other Plastic (Total)	6.1%	6,041	0.00
	Total Plastics	13.7%	13,633	964.92
Glass	Glass Bottles, Jars and Containers	3.9%	3,887	646.33
	Other Glass (Flat glass, dishware, light bulbs, etc.)	0.4%	389	0.00
	Total Glass	4.3%	4,276	646.33
Organics	Food Scraps	13.6%	13,556	0.00
	Leaves and Grass / Pruning and Trimmings	7.0%	7,003	547.37
	Total Organics	20.6%	20,559	547.37
Textiles	Clothing Footwear, Towels, Sheets	3.9%	3,871	20.00
	Carpet	1.5%	1,474	0.00
	Total Textiles	5.4%	5,345	20.00
Wood	Total Wood (Pallets, crates, adulterated and non-adulterated wood)	4.5%	4,527	0.00
Miscellaneous	DIY Construction & Renovation Materials	5.1%	5,126	484.00
	Diapers	1.6%	1,635	0.00
	Electronics	1.5%	1,515	188.37
	Tires	1.7%	1,654	96.32
	HHW	0.3%	336	31.53
	Soils and Fines	0.3%	329	0.00
	Other Composite Materials - Durable and/or inert	1.7%	1,654	0.00
	Total Miscellaneous	12.3%	12,248	800.22
Total		100.0%	99,570	8,810.69



## Step 6. Municipal Solid Waste (MSW) Diversion Projections

This tab will be used to create goals for the amount of material the planning unit will divert for each year of the planning period. These goals will be entered as percentages, based on how much of the material generated will be diverted for recycling or beneficial use.

The diversion goal percentages will be entered in the **purple cells** for each material and each year of the planning period.

Chautauqua County																2024-2033					
		MSW Generation and Diversion Projections																			
		Year				2024	2025	2026	2027	2028	2029	2030	2031	2032	2033						
		Projected MSW Generation (Tons/yr)				98,864	98,333	97,805	97,279	96,756	96,237	95,720	95,205	94,694	94,185						
		MSW Diverted (Tons/yr)				9,322	9,842	10,357	10,865	11,368	11,865	12,357	12,843	13,323	13,798						
	Material	2023				2024	2025	2026	2027	2028	2029	2030	2031	2032	2033						
		MSW Materials Composition (%)	MSW Generated (Tons)	MSW Diverted (Tons)	% MSW Diverted	% MSW Diverted	% MSW Diverted	% MSW Diverted	% MSW Diverted	% MSW Diverted	% MSW Diverted	% MSW Diverted	% MSW Diverted	% MSW Diverted	% MSW Diverted	% MSW Diverted					
		100.0%	99,570	8,811	8.8%	9.4%	10.0%	10.6%	11.2%	11.7%	12.3%	12.9%	13.5%	14.1%	14.6%						
Paper	Newspaper	3.7%	3,674	772	21.0%	22.0%	23.0%	24.0%	25.0%	26.0%	27.0%	28.0%	29.0%	30.0%	31.0%						
	Corrugated Cardboard	9.8%	9,754	3,862	39.6%	40.6%	41.6%	42.6%	43.6%	44.6%	45.6%	46.6%	47.6%	48.6%	49.6%						
	Other Recyclable Paper (Total)	10.8%	10,792	1,002	9.3%	10.3%	11.3%	12.3%	13.3%	14.3%	15.3%	16.3%	17.3%	18.3%	19.3%						
	Other Compostable Paper	6.6%	6,535	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
	Total Paper	30.9%	30,754	5,636	18.3%	19.1%	19.9%	20.7%	21.5%	22.3%	23.1%	23.8%	24.6%	25.4%	26.2%						
Metal	Ferrous/Aluminum Containers (Total)	1.7%	1,700	167	9.8%	10.8%	11.8%	12.8%	13.8%	14.8%	15.8%	16.8%	17.8%	18.8%	19.8%						
	Other Ferrous Metals	5.3%	5,306	26	0.5%	1.5%	2.5%	3.5%	4.5%	5.5%	6.5%	7.5%	8.5%	9.5%	10.5%						
	Other Non-Ferrous Metals (Total)	1.2%	1,222	3	0.2%	1.2%	2.2%	3.2%	4.2%	5.2%	6.2%	7.2%	8.2%	9.2%	10.2%						
	Total Metals	8.3%	8,228	196	2.4%	3.4%	4.4%	5.4%	6.4%	7.4%	8.4%	9.4%	10.4%	11.4%	12.4%						
Plastic	PET Containers	0.9%	900	451	50.2%	51.2%	52.2%	53.2%	54.2%	55.2%	56.2%	57.2%	58.2%	59.2%	60.2%						
	HDPE Containers	0.8%	839	436	51.9%	52.9%	53.9%	54.9%	55.9%	56.9%	57.9%	58.9%	59.9%	60.9%	61.9%						
	Other Plastic (3-7) Containers	0.2%	182	78	42.7%	43.7%	44.7%	45.7%	46.7%	47.7%	48.7%	49.7%	50.7%	51.7%	52.7%						
	Film Plastic	5.7%	5,671	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
	Other Plastic (Total)	6.1%	6,041	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
	Total Plastics	13.7%	13,633	965	7.1%	7.2%	7.4%	7.5%	7.6%	7.8%	7.9%	8.1%	8.2%	8.3%	8.5%						
Glass	Glass Bottles, Jars and Containers	3.9%	3,887	646	16.6%	17.6%	18.6%	19.6%	20.6%	21.6%	22.6%	23.6%	24.6%	25.6%	26.6%						
	Other Glass (Flat glass, dishware, light bulbs, etc.)	0.4%	389	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
	Total Glass	4.3%	4,276	646	15.1%	16.0%	16.9%	17.8%	18.8%	19.7%	20.6%	21.5%	22.4%	23.3%	24.2%						
Organic	Food Scraps	13.6%	13,556	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
	Leaves and Grass / Pruning and Trimmings	7.0%	7,003	547	7.8%	8.8%	9.8%	10.8%	11.8%	12.8%	13.8%	14.8%	15.8%	16.8%	17.8%						
	Total Organics	20.6%	20,559	547	2.7%	3.0%	3.3%	3.7%	4.0%	4.4%	4.7%	5.0%	5.4%	5.7%	6.1%						
Textiles	Clothing Footwear , Towels, Sheets	3.9%	3,871	20	0.5%	1.5%	2.5%	3.5%	4.5%	5.5%	6.5%	7.5%	8.5%	9.5%	10.5%						
	Carpet	1.5%	1,474	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
	Total Textiles	5.4%	5,345	20	0.4%	1.1%	1.8%	2.5%	3.3%	4.0%	4.7%	5.4%	6.2%	6.9%	7.6%						
Wood	Total Wood (Pallets, crates, adulterated and non-adulterated wood)	4.5%	4,527	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
Miscellaneous	DIY Construction & Renovation Materials	5.1%	5,126	484	9.4%	10.4%	11.4%	12.4%	13.4%	14.4%	15.4%	16.4%	17.4%	18.4%	19.4%						
	Diapers	1.6%	1,635	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
	Electronics	1.5%	1,515	188	12.4%	13.4%	14.4%	15.4%	16.4%	17.4%	18.4%	19.4%	20.4%	21.4%	22.4%						
	Tires	1.7%	1,654	96	5.8%	6.8%	7.8%	8.8%	9.8%	10.8%	11.8%	12.8%	13.8%	14.8%	15.8%						
	HHW	0.3%	336	32	9.4%	10.4%	11.4%	12.4%	13.4%	14.4%	15.4%	16.4%	17.4%	18.4%	19.4%						
	Soils and Fines	0.3%	329	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
	Other Composite Materials - Durable and/or inert	1.7%	1,654	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
	Total Miscellaneous	12.3%	12,248	800	6.5%	7.2%	7.9%	8.6%	9.4%	10.1%	10.8%	11.5%	12.2%	12.9%	13.6%						



## Step 7. Municipal Solid Waste (MSW) Generation and Diversion - Detailed Projections

The final result of the Population and Municipal Composition Calculator is presented on the last tab. This tab contains data for the current year regarding waste generated and waste diverted from disposal. This tab also shows the projected waste diversion percentages, and the amount of waste in tons these percentages will divert for recycling. Total amounts of waste diverted will be calculated for each material and each year of the planning period.

Chautauqua County															2024-2033																															
	Material	MSW Compostable (Tons)	2023				2024				2025				2026				2027				2028				2029				2030				2031				2032				2033			
			MSW Generated (Tons)	MSW Diverted (Tons)	%MSW Diverted	MSW generated (Tons)	MSW Diverted	%MSW Diverted	MSW generated (Tons)	MSW Diverted	%MSW Diverted	MSW generated (Tons)	MSW Diverted	%MSW Diverted	MSW generated (Tons)	MSW Diverted	%MSW Diverted	MSW generated (Tons)	MSW Diverted	%MSW Diverted	MSW generated (Tons)	MSW Diverted	%MSW Diverted	MSW generated (Tons)	MSW Diverted	%MSW Diverted	MSW generated (Tons)	MSW Diverted	%MSW Diverted	MSW generated (Tons)	MSW Diverted	%MSW Diverted	MSW generated (Tons)	MSW Diverted	%MSW Diverted											
Paper	Newspaper	3,674	772	21.0%	3,648	803	22.0%	3,629	835	23.0%	3,609	866	24.0%	3,590	898	25.0%	3,570	929	26.0%	3,551	959	27.0%	3,532	989	28.0%	3,513	1,019	29.0%	3,494	1,049	30.0%	3,476	1,078	31.0%												
	Corrugated Cardboard	9,804	9,754	3,862	39.6%	9,685	3,932	40.6%	9,633	4,007	41.6%	9,581	4,081	42.6%	9,529	4,154	43.6%	9,478	4,227	44.6%	9,427	4,298	45.6%	9,377	4,369	46.6%	9,326	4,439	47.6%	9,276	4,508	48.6%	9,226	4,576	49.6%											
	Other Recyclable Paper (Total)	10,848	10,792	1,002	9.3%	10,715	1,102	10.3%	10,658	1,202	11.3%	10,600	1,302	12.3%	10,543	1,400	13.3%	10,487	1,498	14.3%	10,430	1,594	15.3%	10,374	1,689	16.3%	10,319	1,783	17.3%	10,263	1,876	18.3%	10,208	1,968	19.3%											
	Other Compostable Paper	6,565	6,535	0	0.0%	6,488	0	0.0%	6,453	0	0.0%	6,419	0	0.0%	6,384	0	0.0%	6,350	0	0.0%	6,316	0	0.0%	6,282	0	0.0%	6,248	0	0.0%	6,215	0	0.0%	6,181	0	0.0%											
	Total Paper	30,893	30,754	5,636	18.3%	30,536	5,836	19.1%	30,372	6,044	19.9%	30,209	6,250	20.7%	30,047	6,453	21.5%	29,885	6,653	22.3%	29,725	6,852	23.1%	29,565	7,048	23.8%	29,406	7,241	24.6%	29,248	7,433	25.4%	29,091	7,622	26.2%											
Metal	Ferrous/Aluminum Containers (Total)	1,711	1,700	167	9.8%	1,688	183	10.8%	1,679	199	11.8%	1,670	214	12.8%	1,661	230	13.8%	1,652	245	14.8%	1,643	260	15.8%	1,634	275	16.8%	1,625	290	17.8%	1,616	305	18.8%	1,608	319	19.8%											
	Other Ferrous Metals	5,333	5,306	26	0.5%	5,269	79	1.5%	5,240	131	2.5%	5,212	182	3.5%	5,184	233	4.5%	5,156	283	5.5%	5,129	333	6.5%	5,101	382	7.5%	5,074	431	8.5%	5,046	479	9.5%	5,019	527	10.5%											
	Other Non-Ferrous Metals (Total)	1,233	1,222	3	0.2%	1,213	15	1.2%	1,207	27	2.2%	1,200	39	3.2%	1,194	50	4.2%	1,187	62	5.2%	1,181	73	6.2%	1,175	85	7.2%	1,168	96	8.2%	1,162	107	9.2%	1,156	118	10.2%											
	Total Metals	8,266	8,228	196	2.4%	8,169	276	3.4%	8,125	356	4.4%	8,082	435	5.4%	8,038	513	6.4%	7,995	590	7.4%	7,952	667	8.4%	7,909	742	9.4%	7,867	817	10.4%	7,825	891	11.4%	7,783	964	12.4%											
Plastic	PET Containers	0.90%	900	451	50.2%	893	457	51.2%	888	463	52.2%	884	470	53.2%	879	476	54.2%	874	482	55.2%	869	488	56.2%	865	494	57.2%	860	500	58.2%	856	506	59.2%	851	512	60.2%											
	HDPE Containers	0.84%	839	436	51.9%	833	441	52.9%	829	447	53.9%	824	453	54.9%	820	459	55.9%	815	464	56.9%	811	470	57.9%	807	475	58.9%	802	481	59.9%	798	486	60.9%	794	492	61.9%											
	Other Plastic (3-7) Containers	0.18%	182	78	42.7%	181	79	43.7%	180	80	44.7%	179	82	45.7%	178	83	46.7%	177	84	47.7%	176	86	48.7%	175	87	49.7%	174	88	50.7%	173	90	51.7%	172	91	52.7%											
	Film/Plastic	5.70%	5,671	0	0.0%	5,631	0	0.0%	5,601	0	0.0%	5,571	0	0.0%	5,541	0	0.0%	5,511	0	0.0%	5,481	0	0.0%	5,452	0	0.0%	5,423	0	0.0%	5,393	0	0.0%	5,364	0	0.0%											
	Other Plastic (Total)	6.07%	6,041	0	0.0%	5,998	0	0.0%	5,966	0	0.0%	5,934	0	0.0%	5,902	0	0.0%	5,871	0	0.0%	5,839	0	0.0%	5,808	0	0.0%	5,776	0	0.0%	5,745	0	0.0%	5,715	0	0.0%											
	Total Plastics	13.69%	13,633	965	7.1%	13,536	977	7.2%	13,464	991	7.4%	13,391	1,004	7.5%	13,319	1,018	7.6%	13,248	1,031	7.8%	13,177	1,044	7.9%	13,106	1,057	8.1%	13,035	1,070	8.2%	12,965	1,082	8.3%	12,896	1,094	8.5%											
Glass	Glass Bottles, Jars and Containers	3.90%	3,887	646	16.6%	3,859	680	17.6%	3,838	715	18.6%	3,818	749	19.6%	3,797	783	20.6%	3,777	817	21.6%	3,757	850	22.6%	3,736	883	23.6%	3,716	915	24.6%	3,696	947	25.6%	3,676	979	26.6%											
	Other Glass (Flat glass, dishware, light bulbs, etc.)	0.39%	389	0	0.0%	387	0	0.0%	384	0	0.0%	382	0	0.0%	380	0	0.0%	378	0	0.0%	376	0	0.0%	374	0	0.0%	372	0	0.0%	370	0	0.0%	368	0	0.0%											
	Total Glass	4.29%	4,276	646	15.1%	4,246	680	16.0%	4,223	715	16.9%	4,200	749	17.8%	4,178	783	18.8%	4,155	817	19.7%	4,133	850	20.6%	4,111	883	21.5%	4,089	915	22.4%	4,067	947	23.3%	4,045	979	24.2%											
Organics	Food Scraps	13.61%	13,556	0	0.0%	13,460	0	0.0%	13,388	0	0.0%	13,316	0	0.0%	13,244	0	0.0%	13,173	0	0.0%	13,102	0	0.0%	13,032	0	0.0%	12,962	0	0.0%	12,892	0	0.0%	12,823	0	0.0%											
	Leaves and Grass /Pruning and Trimmings	7.03%	7,003	547	7.8%	6,953	613	8.8%	6,916	679	9.8%	6,878	744	10.8%	6,841	808	11.8%	6,805	872	12.8%	6,768	935	13.8%	6,732	997	14.8%	6,696	1,059	15.8%	6,660	1,120	16.8%	6,624	1,180	17.8%											
	Total Organics	20.65%	20,559	547	2.7%	20,413	613	3.0%	20,303	679	3.3%	20,194	744	3.7%	20,086	808	4.0%	19,978	872	4.4%	19,871	935	4.7%	19,764	997	5.0%	19,658	1,059	5.4%	19,552	1,120	5.7%	19,447	1,180	6.1%											
Textiles	Clothing Footwear, Towels, Sheets	3.89%	3,871	20	0.5%	3,844	58	1.5%	3,823	96	2.5%	3,802	134	3.5%	3,782	171	4.5%	3,762	208	5.5%	3,741	244	6.5%	3,721	280	7.5%	3,701	315	8.5%	3,681	350	9.5%	3,662	385	10.5%											
	Carpet	1.48%	1,474	0	0.0%	1,464	0	0.0%	1,456	0	0.0%	1,448	0	0.0%	1,440	0	0.0%	1,433	0	0.0%	1,425	0	0.0%	1,417	0	0.0%	1,410	0	0.0%	1,402	0	0.0%	1,395	0	0.0%											
	Total Textiles	5.37%	5,345	20	0.4%	5,307	58	1.1%	5,279	96	1.8%	5,251	134	2.5%	5,222	171	3.3%	5,194	208	4.0%	5,166	244	4.7%	5,139	280	5.4%	5,111	315	6.2%	5,084	350	6.9%	5,056	385	7.6%											
Wood	Total Wood (Pallets, crates, adulterated and non-adulterated)	4.55%	4,527	0	0.0%	4,495	0	0.0%	4,471	0	0.0%	4,447	0	0.0%	4,423	0	0.0%	4,399	0	0.0%	4,375	0	0.0%	4,352	0	0.0%	4,329	0	0.0%	4,305	0	0.0%	4,282	0	0.0%											
	DIVCnstruction &Renovation Materials	5.15%	5,126	484	9.4%	5,089	531	10.4%	5,062	579	11.4%	5,035	626	12.4%	5,008	673	13.4%	4,981	719	14.4%	4,954	765	15.4%	4,928	810	16.4%	4,901	855	17.4%	4,875	899	18.4%	4,849	943	19.4%											
	Diapers	1.64%	1,635	0	0.0%	1,623	0	0.0%	1,614	0	0.0%	1,606	0	0.0%	1,597	0	0.0%	1,588	0	0.0%	1,580	0	0.0%	1,571	0	0.0%	1,563	0	0.0%	1,555	0	0.0%	1,546	0	0.0%											
	Electronics	1.52%	1,515	188	12.4%	1,504	202	13.4%	1,496	216	14.4%	1,488	230	15.4%	1,480	243	16.4%	1,472	257	17.4%	1,464	270	18.4%	1,457	283	19.4%	1,449	296	20.4%	1,441	309	21.4%	1,433	321	22.4%											
	Tires	1.66%	1,654	96	5.8%	1,642	112	6.8%	1,633	128	7.8%	1,624	143	8.8%	1,615	159	9.8%	1,607	174	10.8%	1,598	189	11.8%	1,590	204	12.8%	1,581	219	13.8%	1,573	233	14.8%	1,564	248	15.8%											
	HHW	0.34%	336	32	9.4%	333	35	10.4%	332	38	11.4%	330	41	12.4%	328	44	13.4%	326	47	14.4%	325	50	15.4%	323	53	16.4%	321	56	17.4%	319	59	18.4%	318	62	19.4%											
	Soils and Fines	0.33%	329	0	0.0%	326	0	0.0%	325	0	0.0%	323	0	0.0%	321	0	0.0%	320	0	0.0%	318	0	0.0%	316	0	0.0%	314	0	0.0%	313	0	0.0%	311	0	0.0%											
	Other Composite Materials- Durable and/or inert	1.66%	1,654	0	0.0%	1,642	0	0.0%	1,634	0	0.0%	1,625	0	0.0%	1,616	0	0.0%	1,607	0	0.0%	1,599	0	0.0%	1,590	0	0.0%	1,582	0	0.0%	1,573	0	0.0%	1,565	0	0.0%											
	Total Miscellaneous	12.30%	12,248	800	6.5%	12,161	880	7.2%	12,096	961	7.9%	12,031	1,040	8.6%	11,966	1,119	9.4%	11,902	1,197	10.1%	11,838	1,274	10.8%	11,774	1,350	11.5%	11,711	1,425	12.2%	11,648	1,500	12.9%	11,585	1,573	13.6%											

	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Population	125,610	124,936	124,264	123,597	122,933	122,272	121,615	120,962	120,312	119,666	119,023
MSW Generated (tons)	99,570	98,864	98,333	97,805	97,279	96,756	96,237	95,720	95,205	94,694	94,185
Per Capita MSW Generated (lisperson/year)	1,583	1,583	1,583	1,583	1,583	1,583	1,583	1,583	1,583	1,583	1,583
MSW Diverted (tons)	8,811	9,322	9,842	10,357	10,865	11,368	11,865	12,357	12,843	13,323	13,798
Per Capita MSW Diverted (lisperson/year)	140	149	158	168	177	186	193	204	213	223	232
MSW Disposed (tons)	90,759	89,542	88,491	87,448	86,414	85,388	84,371	83,363	82,363	81,371	80,387
Per Capita MSW Disposed (lisperson/year)	1,435	1,433	1,424	1,415	1,406	1,397	1,388	1,378	1,369	1,360	1,351
Per Capita MSW Disposed (lisperson/year)	3.96	3.93	3.90	3.88	3.85	3.83	3.80	3.78	3.75	3.73	3.70